



STATE OF MICHIGAN

JENNIFER M. GRANHOLM
GOVERNOR

MICHIGAN ENVIRONMENTAL SCIENCE BOARD
LANSING

KEITH G. HARRISON
EXECUTIVE DIRECTOR

February 9, 2005

The Honorable Jennifer M. Granholm
Governor of Michigan
P.O. Box 30013
Lansing, Michigan 48909

Dear Governor Granholm:

This is to advise you that on Monday, February 28, 2005, I will be retiring from state government and, therefore, also resigning from my gubernatorial appointed position as Executive Director of the Michigan Environmental Science Board (MESB). Upon my retirement, I will have served the state for just under 25 years in a variety of science-related positions within six different state agencies. In addition, for the last 12 ½ years of my state career, I will have concurrently served the state as the Executive Director of the MESB.

The MESB was created August 6, 1992, as a Type II independent autonomous state agency through Executive Order 1992-19. The MESB consists of an executive director and nine members, appointed by you, who have expertise in one or more of the following disciplines: engineering, ecological sciences, chemistry, physics, toxicology, pharmacology, biological sciences, human medicine, statistics, risk management, geology, economics, and other academic disciplines as necessary. All members and the executive director serve on the MESB voluntarily and without pay.

The MESB was established to provide you, and state departments upon your request, with advice based on sound, objective science and technology on matters relating to environmental protection and natural resources management. The MESB purposefully does not serve as a state policy body or an advocate for or against any particular environmental or public health concern. All conclusions and recommendations emanating from MESB investigations are based on consensus supported by compelling scientific rationale and sustaining data. The MESB investigative protocol helps to ensure that any advice provided to you by the MESB is based solely on the scientific and/or technical merits of the issue and is unbiased by personal opinions or vested interests.

During the last 12 plus years, the MESB has prepared 18 scientific reports on a wide diversity of Michigan concerns ranging from the evaluation of the environmental and human health impacts of mercury, chlorine, and lead to the evaluation of the efficacy of

directional drilling under the Great Lakes and the probability of occurrence of certain types of cancer among fire fighters (see Attachment 1). The 18 MESB investigations have provided invaluable counsel to state government regarding significant environmental issues facing Michigan. In addition, several of the MESB's reports have served as the scientific underpinning for the development of subsequent state environmental policy. Because of its demonstrated expertise, the MESB has become recognized by academia, other state environmental and natural resources agencies, and the U.S. Environmental Protection Agency (USEPA) as a highly credible scientific and peer review resource serving Michigan government.

In light of some of the more complex environmental and technological challenges facing Michigan (see Table 1), it is my hope that your administration might take more advantage of this highly respected state scientific resource to assist the state's policy makers in addressing the significant environmental issues affecting Michigan and the Great Lakes Region. This volunteer body of nationally recognized science and technology experts is an important on-call, gratis resource to state government and it would be highly advantageous to Michigan to avail itself more of its expertise and advice.

Table 1. Emerging Environmental and Technological Concerns and Challenges

- Increased state focus on environmentally polluting pharmaceuticals and their relationship to observed increased antibiotic resistance.
- Increased state focus on estrogenic compounds and their observed impacts on fish, wildlife, and possibly humans.
- Containment, mitigation and, where possible, eradication of the Emerald Ash Borer.
- Prevention and mitigation of the impacts of aquatic and terrestrial invasive species.
- Objective scientific evaluation of genetically modified food concerns.
- Reversal of urban sprawl and mitigation of its negative impact on wildlife habitat and biodiversity.
- Objective scientific evaluation of the implications of genomics and molecular nanotechnology to the environment and humans.
- Increased state focus on gasification of waste material to energy technologies.
- Increased state focus on carbon capture and sequestration technologies.

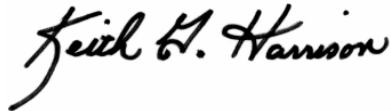
Although I am retiring from state government, I will not be retiring from working. Given my 30 plus years of experience, I will be establishing a professional consultation service to provide advice in the areas of ecological and environmental sciences. In addition,

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given my recent appointment by the USEPA Science Advisory Board, I will be continuing my participation on the Council on Clean Air Compliance Analysis' Ecological Effects Subcommittee and on several other USEPA committees on national and regional environmental indicators.

It has been a distinct honor to have served former Governor John Engler and you for the last 12 ½ years as the MESB Executive Director. In addition, it has been distinct privilege to have served the citizens of Michigan for the last 24 plus years as a state civil servant.

Sincerely,

A handwritten signature in black ink that reads "Keith G. Harrison". The signature is written in a cursive, flowing style.

Keith G. Harrison, M.A., R.S., R.E.H.S., Certified Senior Ecologist
Executive Director
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cc/att: The Honorable John Engler, Former Governor
Ms. Susan Corbin, Director of Appointments, Governor's Office
Ms. Dana Debel, Environmental Advisor, Governor's Office
Current and Former Members, Michigan Environmental Science Board

Attachment 1. Michigan Environmental Science Board Publications 1993 - 2003.

- Demers, R.Y., D. Garabrandt, M.A. Kamrin, R. Novak, R.J. Richardson, K. Solomon and K.G. Harrison. 2003. ***Critical Review of a Proposed List of Toxic Substances to Biomonitor in Michigan Residents***, July 2003. Michigan Environmental Science Board, Lansing. x + 28p.
- Gracki, J.A., R.A. Everett, H. Hack, P.F. Landrum, D.T. Long, B.J. Premo, S.C. Raaymakers, G.A. Stapleton and K.G. Harrison. 2002. ***Critical Review of a Ballast Water Biocides Treatment Demonstration Project Using Copper and Sodium Hypochlorite***, September 2002. Michigan Environmental Science Board, Lansing. xii + 30p.
- Premo, B.J., D.T. Long, R.J. Huggett, D. Premo, W.W. Taylor, G.T. Wolff and K.G. Harrison. 2001. ***Recommended Environmental Indicators Program for the State of Michigan***, July 2001. Michigan Environmental Science Board, Lansing. x + 88p.
- Fischer, L.J., L. Abriola, R.H. Kummier, D.T. Long and K.G. Harrison. 2001. ***Evaluation of the Michigan Department of Environmental Quality's Generic Groundwater and Soil Volatilization to Indoor Air Inhalation Criteria***, April 2001. Michigan Environmental Science Board, Lansing. x + 54p.
- Fischer, L.J., J.A. Gracki, D.T. Long, G.T. Wolff and K.G. Harrison. 2000. ***Health Effects of Low-Level Hydrogen Sulfide in Ambient Air***, August 2000. Michigan Environmental Science Board, Lansing. x + 30p.
- Gracki, J.A., M. DeVito, R.A. Etzel, M.A. Kamrin, W.B. Weil, G.T. Wolff and K.G. Harrison. 2000. ***Analysis of the Michigan Department of Environmental Quality's Administered Environmental Standards to Protect Children's Health***, February 2000. Michigan Environmental Science Board, Lansing. x + 66p.
- Premo, B.J., T.R. Batterson, J.A. Gracki, C.D. McNabb and K.G. Harrison. 1999. ***Evaluation of the Use of Sonar® in Michigan***, October 1999. Michigan Environmental Science Board, Lansing. x + 97p.
- Fischer, L.J., R.Y. Demers, R.H. Kummier, G.M. Swanson and K.G. Harrison. 1999. ***Evaluation of the Risk of Cancer among Fire Fighters***, June 1999. Michigan Environmental Science Board, Lansing. 31p.
- Fischer, L.J., P.M. Bolger, J.L. Jacobson, B.J. Premo, E.O. van Ravenswaay and K.G. Harrison. 1998. ***Evaluation of Michigan's Proposed 1998 Fish Advisory Program***, January 1998. Michigan Environmental Science Board, Lansing. vi + 67p.
- Long, D.T., W.E. Cooper, W.B. Harrison III, R.H. Olsen, B.J. Premo and K.G. Harrison. 1997. ***Evaluation of Directional Drilling under the Great Lakes***, October 1997. Michigan Environmental Science Board, Lansing. 8p.
- Fischer, L.J., R.Y. Demers, J. R. Harkema, R.H. Kummier, K.R. Rosenman, G.T. Wolff and K.G. Harrison. 1997. ***Evaluation of Air Quality and Human Health Issues Involving Particulate Matter and Ozone***, August 1997. Michigan Environmental Science Board, Lansing. xii + 82p.
- Fischer, L.J., P.M. Bolger, G.P. Carlson, J.L. Jacobson, M.A. Roberts, P.T. Thomas, K.B. Wallace and K.G. Harrison. 1997. ***(Impact of New PCB Information on 1995 MESB-Council of Great Lakes Governors Special Fish Advisory Report), Correspondence to Governor John Engler***, January 21, 1997. Michigan Environmental Science Board, Lansing. 10p.
- Premo, B.J., J.E. Carey, L.J. Fischer, D.T. Long, D.J. Morrissey, C.E. Nagle and K.G. Harrison. 1996. ***Evaluation of Michigan's Low-Level Radioactive Waste Isolation Facility Siting Criteria***, June 1996. Michigan Environmental Science Board, Lansing. xiv + 94p.

Attachment 1. Michigan Environmental Science Board Publications 1993 – 2003 (continued).

Fischer, L.J., P.M. Bolger, G.P. Carlson, J.L. Jacobson, B.A. Knuth, M.J. Radike, M.A. Roberts, P.T. Thomas, K.B. Wallace and K.G. Harrison. 1995. ***Critical Review of a Proposed Uniform Great Lakes Fish Advisory Protocol***, September 1995. Michigan Environmental Science Board, Lansing. xii + 62p.

Bulkley, J.W., R.Y. Demers, D.T. Long, G.T. Wolff and K.G. Harrison. 1995. ***The Impacts of Lead in Michigan***, March 1995. Michigan Environmental Science Board, Lansing. xii + 48p.

Olsen, R.H., B.J. Premo and K.G. Harrison. 1994. ***(Report on Bacteriological and Macrophyte Contamination of Lake St. Clair), Correspondence to Governor John Engler***, August 26, 1994. Michigan Environmental Science Board, Lansing. 2p.

Fischer, L.J., R.J. Cook, R.Y. Demers, B.J. Premo, E.O. van Ravenswaay and K.G. Harrison. 1994. ***Impacts of Chlorine Use on Environmental and Public Health***, June 1994. Michigan Environmental Science Board, Lansing. x + 67p.

Fischer, L.J., J.W. Bulkley, R.J. Cook, R.Y. Demers, D.T. Long, R.H. Olsen, B.J. Premo, E.O. van Ravenswaay, G.T. Wolff and K.G. Harrison. 1993. ***Mercury in Michigan's Environment: Environmental and Human Health Concerns***, April 1993. Michigan Environmental Science Board, Lansing. xii + 144p.